

**CITY OF SUGAR LAND
2006 - 2010 CAPITAL IMPROVEMENT PROGRAMS**

SUMMARY - AIRPORT

PROJECT NO.	PROJECT NAME	PROJECT DESCRIPTION	JUSTIFICATION
AP0601	T-Hangars	Construction of 80 T-Hangars on the east side of the airport.	Relocate GA to new development area for continued development of corporate aviation.
AP0602	US Customs Permanent Facility	Design and construct new freestanding facility to house US Customs. Site is located at the northeast corner of the existing terminal apron, immediately to the north of the existing terminal building.	Currently the airport has a temporary building available for US Customs. The airport is required to begin the design of a new permanent facility within 12 months of US Customs' move on-site. Due to the complex requirements of this facility, the airport is hiring an architect to determine the building size, scope and needs.
AP0701	Runway Repair	Rehab, cleaning and re-marking of runway, parallel taxiway and existing terminal apron. Rehab includes joint re-sealing, crack repair, spall repair and shoulder grading.	Make necessary repairs and preventative maintenance to runway to ensure safety for our customers, and to prolong the life of the runway.
AP0801	Airport Utilities Project - Phase II	Construction of ultimate internal water distribution system. Phase 2 includes fire line with storage tanks and booster pumps capable of delivering large volume of water needed for the Airport's Commercial Hanger's Automatic Sprinkler Systems.	The airport lacks distribution system piping infrastructure to service existing and future development. Phase 2 will provide large diameter lines for on-site water storage and supply the water required for automatic sprinkler system.
AP0901	Northern Parallel Taxiway	Construct northern parallel taxiway to corporate lease development sites.	Required separation by FAA design standards between runway and taxiway for movement of aircraft.
AP0902	New Corporate Taxiway "India"	Construct new east-west taxiway with associated ramp and infrastructure for corporate lease sites development.	The development of new corporate lease sites. All existing corporate lease sites on Taxiway "Hotel" are leased out.

SUMMARY - DRAINAGE

DR9702	Sugar Creek/ Market Place Phase I (Supplement)	Expand the existing detention pond located adjacent to the TxDOT's facility at the US 90A and US 59 intersection. The pond is proposed to be expanded to its ultimate capacity to facilitate development of vacant tracts in the "Triangle Area". This is the area located between the limits of US 90A, US 59, and Commerce Green.	As per Ordinance No. 1129, on site detention or participation in the regional detention facility is required to mitigate any potential impacts from new developments in the "Triangle Area". Also, landscape improvements are proposed to improve the aesthetics, and to serve as a lake/detention.
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DR0601	Highway 90A Ditch Improvements	Concrete slope paving of Hwy 90-A Ditch from Eldridge to Dairy Ashford and the construction of a regional detention pond. This is to mitigate existing flooding conditions and to accommodate development of the remaining undeveloped tracts in the 90A watershed.	Recent studies performed by LAN, Inc. and Costello, Inc., indicates that the conveyance system in the watershed does not have adequate capacity to accommodate ultimate build-out within the watershed. The preliminary engineering study (PER) will identify a combination of ditch improvements and regional detention drainage projects to address the drainage issues.
DR0602	Channel Improvements-Sweetwater @ Ditch "A"	Erosion is occurring under twin bridges. It is proposed that approximately 2,200 square yards of concrete slope paving be installed under the structures.	The installation of concrete slope paving will eliminate erosion, stabilize embankments and protect structural integrity of the bridges.
DR0603	Additional inlets along Maygrove Drive & Covington Woods	Maygrove is a cul-de-sac street in the Covington Woods subdivision that ultimately drains to the Covington Woods Ditch along the Woodchester storm sewer system. Construction of additional inlets would provide relief to flooding concerns during smaller rainfall events.	Residents have complained about flooding concerns even during smaller rain events. The Covington Woods study performed by Dannenbaum Engineering Corp., also identified a number of deficiencies in the stormwater collection system.
DR0604	Ditch "A-22" Modifications	The project entails widening of the "A-22" channel downstream of the recently constructed "restrictor", extending to the Covington Woods ditch confluence (approx. 300 feet). The project also involves constructing a "pilot channel" upstream of the restrictor.	Recent improvements to "A-22" by MUD 21 in the vicinity of Sugar Mill subdivision exacerbated the flooding problems in the Sugar Mill Subdivision. The City & MUD 21 authorized a study to evaluate the impacts. Based on the findings from this study, mitigation measures are being proposed. The City & MUD 21 are anticipated to partner in this project.
DR0605	Ditch H Extension from current location (just south of US 90A) to Oyster Creek.	Extend Ditch "H" across U.S. 90-A and railroad to Oyster Creek just upstream of Dam 1. This is one of the projects identified in the 2003 Upper Oyster Creek and Ditch H Drainage Study.	This completes phase I of project identified and recommended in the 2003 Oyster Creek Study. The project is anticipated to lower 100-yr WSE in Oyster Creek within the City limits. The City will share costs with FB County and Tract 3 developer.
DR0606	Storm Sewer Inlet/Apron Reconstruction	Annual removal and replacement of failed inlet aprons, inlet hoods, and reseal inlet boxes if required. In some cases there may need to be some adjustments to the I beams that support the frame and gates.	Public Works has identified many residential streets and arterial streets that have double "B" storm sewer inlets that include a block out in the concrete pavement which has settled, cracked, and is in need of repairs. Final two years of five year project.

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DR0701	Sugar Creek Drainage Improvements/Design	Inlet and storm sewer improvements in "problem areas" within the watershed. Improvements to various lake/storage facilities within the watershed, and modification to control structures. Dannenbaum Engineering will perform the Drainage Analysis in FY 04/05.	Street flooding for an extended period was witnessed during the major 2003 rain events. During Allison, floodwaters came close to causing "flooding" of property abutting the lakes. A comprehensive study of problem areas will be completed in FY 04/05. Budget allocation is for the design and construction of potential projects identified in the study.
DR0702	Installation of Additional Flow Monitors (Supplemental)	Installation of four additional flow monitoring devices in the City's watersheds and enhancements to the existing system.	These devices serve as a "flood alert system" as well as a data collection tool. The data collected is used in the evaluation/design of future drainage improvement projects in the City. The ultimate goal is to install these devices in all major drainage conveyance systems within the City.
DR0801	Additional Storm Sewer Lateral Tie-in's to Eldridge Road.	Public Works Department design and construction of storm sewer laterals that divert a portion of flows from the Covington Woods Subdivision to Eldridge Road. Additional flow diversions from the following streets (Greenbrier, Linden and Rolling Mill) is being proposed.	This is inline with the departmental plan to study and improve all of the areas prone to street flooding within the City. This is the next logical step in the continuation of an opportunistic program for drainage improvements.
DR0802	Sugar Creek/Market Place Phase II	Design and construction of an additional 48" diameter reinforced concrete pipe to Jane Long Lake across U.S. Highway 59. This is identified in the 2000 Master Drainage Plan. (MDP)	The existing conduit conveying flow to Jane Long Lake (across US 59) was identified to be inadequate to convey runoff from the proposed development in the "Triangle Area". The schedule for design and construction is driven by future development, and the findings from the on-going Sugar Creek Watershed Study.
DR0803	Data acquisition using LIDAR for creating a Digital Terrain Model (DTM)	Using LIDAR technology, collection of topographic data covering the City Limits and ETJ. A Digital Terrain Model (contours) and aerial photography covering the City and ETJ limits would be developed as part of this process. This technology will assist the City for planning and engineering purposes.	As part of the ongoing FEMA map update process in FB County, LIDAR coverage for some areas within the City & ETJ would be covered. The \$250K proposed in FY 07/08 is to complete coverage for remaining areas in City outside the limits of the DFIRM scope.

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DR0804	Dulles Ave. Ditch. Improvements	Design and construction of roadside ditches located on Dulles Ave. that are within the City's ROW, between the limits of Avenue E. and 90 A. The runoff from this area ultimately outfalls to the Stafford-run ditch via a box culvert.	Ditch profile work performed by Othon, Inc. identified many "sunken" driveway culverts which were contributing to the flooding problems/ concerns along properties abutting the roadside ditches. These were witnessed during major rain events in 2003. Design & construction would be part of Dulles Ave. reconstruction.
SUMMARY - MUNICIPAL			
MU0401	City Facility Security	Expansion of the citywide, integrated, access control system (ACMS) communicating by using the City's TCP/IP based network and providing perimeter door security through door position sensors and exit signaling for intrusion monitoring and the positioning of card readers and electric locks at specified facility doors for authorized personnel entry. System to be expanded to Public Works Facility, PD/Courts, Airport and selected Parks Facilities.	Currently, few City facilities have perimeter access security and monitoring capabilities. In today's world, the need for basic security in providing protection for City employees and the public is paramount.
MU0501	Fire Station Replacement	Replace existing Fire Station No. 1. Adequate space required to house all administrative functions, training facility (meeting room) and alternate Emergency Operations Center.	Building that houses fire station #1 was built in the early 60's as a feed store. It has been modified several times to accommodate the community center, city hall, parks & recreation & fire station #1. The facility no longer supports fire department services or additional growth. The department has grown to 6 stations requiring additional administrative support functions, quartermaster facilities, & training upgrades are required to meet several key ratings for ISO, EOC alternative location & meet vision of model department.
MU0601	Facilities Improvements	Annual funding for miscellaneous building renovations, expansions and upgrades.	Allow reconfiguration of existing work areas to maximize use; facilitate building improvements and upgrades. Construct/install temporary accommodations for Fire and Parks Department relocation due to reconstruction of Fire Station No. 1/City Hall Annex.

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MU0602	Future Fire Station #7	Purchase property for Fire Station # 7 to address future fire protection needs in what is currently known as tracts 4 & 5. Design and construction of the City's Fire Station No. 7 in the Newland Development.	Per the Fire Department's strategic plan to provide expanded service as warranted by population and service area. Tracts 4 & 5 have been annexed and are pending development via Newland Communities. It is necessary to acquire property for future fire protection and response coverage for this developing community and throughout the City as well as meet ISO rating requirement.
MU0701	Vehicle Processing and Storage	Approximate 7,500 s.f. freestanding building will be utilized for: vehicle processing, evidence storage and housing for Command Center and SWAT vehicles.	PD currently has no area designated for processing vehicles for evidence. Secure storage area is needed for Mobile Command post and SWAT vehicles.
MU0702	Public Works Maintenance Facility Expansion	Per Master Plan Study add/reconstruct the following space- Office: 6,000 s.f., Storage: 8,000 s.f., Vehicle Cover: 17,000 s.f., Garage: 5,000 s.f., and sign shop: 1,800 s.f. Cost estimates to be confirmed in FY 06-07.	Current facility at capacity for office space. Inadequate space for vehicle storage and dry storage. Expansion will take facility to population of 150,000,
MU0801	Animal Control Facility	Preliminary study, design and construction of a new facility to accommodate the provision of animal control services.	Current facility is at capacity and in need of improvements.
MU0901	Archive Storage Building	Planning and programming phase for an approximate 7,500 s.f. building that will be used to house City archives.	The City's current facility is at capacity, does not have fire sprinklers, is approximately 47 years old and will need significant repairs to roofing and HVAC systems in the next 5 years.
SUMMARY - PARKS			
PK0202	Duhacsek Property	The Duhacsek Property consists of 49.40 acres. Located at the corner of Voss and Old Richmond Road. Preserving the open spaces and trees the facility would be a retreat facility for families, boy scouts, girl scouts, YMCA, churches and company picnics. Including a 300-400 people pavilion, backstops baseball/softball, trails, and playgrounds.	Expand the offerings of this reservation only facility to include a wide range of recreational opportunities.
PK0304	Brazos River Corridor	Construction of phase I park development along the Brazos River in 2006. Site is 420 acres. The future phases will be developed in accordance with the Council approved Preliminary plan for the 420 acre section of the Brazos River Corridor Park.	Provide enhanced recreational opportunities.

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PK0403	Recreation Center	Design of facility and construction as determined by the Parks Recreation and Open Space Master Plan. The building is proposed to be 30,000 square feet, including approximately 7,000 square feet for Parks Administration and 23,000 square feet for recreation.	Provide expanded recreational opportunities per the Parks, Recreation and Open Space Master Plan.
PK0601	Park Site in First Colony on Settlers Way Blvd.	The 5 acre site is located adjacent to Settlers Way Elementary and would be a neighborhood level Park. Neighborhood Level Parks generally include a walking trail, playground, picnic pavilion, landscaping, irrigation, and open play space. The existing use of the site is for First Colony Soccer Club games and practices. Planning for the park improvements will include the current use for soccer activities.	Identified in Parks Master Plan.
PK0602	Joint Participation in CIP Projects	Provide annual matching funds for City joint participation in CIP projects that provide for general public benefit. Take advantage of opportunistic partnerships.	Have funds earmarked when the projects are ready for construction.
PK0603	Parks Rehabilitation Projects	Park renovations and upgrades that meet the criteria for capital improvements.	Heavy use of Parks and Recreation facilities results in wear and tear. Funding to address rehabilitation issues as they arise will ensure that the facilities remain attractive and functional. This will prevent the need to do costly renovations in the future.
PK0604	City Park Baker Field Renovation	Renovate the existing concession stan, restroom, and press box building. Upgrade the baseball field, bleachers, dugouts, lights, parking, storage, irrigation and landscaping.	Parks Master Plan identifies this facility needing to be upgraded.
PK0701	Park Land Acquisition - Newly Developed Areas	Land acquisition - Acquire 50-75 acres in the Newland Development @ Hwy 6 and Hwy 90A.	Per the Newland Developers Agreement, the City will purchase the property identified in the developments General Plan. This land will assure adequate inventory of acreage of future park land to meet increasing demands.

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PK0702	Imperial Park Trail & Pavilion	Develop trails and pavilions in accordance with the Imperial Park Master Plan. Trails and Picnicking facility needs are identified as priority needs in the Parks Master Plan. The project would also include additional tree plantings and irrigation.	These improvements are reflected in the Softball Complex Master Plan which defined the scope of the project as 3 Phases. The Imperial Park Master Plan identifies 2 more softball fields, parking, trails and pavilions. Per the Parks, Recreation, and Open Space Master Plan, trails and pavilions are higher priority items than softball fields through 2010. Therefore it is recommended that development for the trails and pavilions precedes the development of 2 additional fields as shown on the Imperial Park Master Plan.
PK0703	Chinese Garden Feasibility Study	Hire a consultant to provide information on Design, Construction, Maintenance and Operation Costs.	Parks, Recreation and Open Space Master Plan and City Council directive.
PK0801	Hike and Bike Trail	Implement recommendations from Hike and Bike Trail Master Plan.	Priority segments per the Master Plan.
PK0802	First Colony Park Playground Renovation	Playground Equipment needs to be replaced due to deteriorating condition. Upgrade the equipment to enhance the play experience. The project will include drainage, irrigation and landscaping improvements.	The structure has deteriorated and replacement parts are difficult to acquire.
PK0901	Park Land Acquisition in the Riverstone Area	Acquire 20 to 30 acres of land for a Community Level Park to serve the Riverstone, Commonwealth, and Avalon area.	With many new homeowners expected in the Sugar Land section of Riverstone there will be a strong need to accommodate recreational needs, especially for youth sports.
SUMMARY - STREETS			
ST0106	University Blvd. Thru Brazos Landing	Construction of four lane roadway and drainage from Commonwealth Boulevard extension to Riverstone (thru Brazos Landing). This also includes the upsized drainage system to ultimately be able to accommodate six lanes of pavement.	City will receive \$3.25 million in County mobility bonds. Per developer agreement with Riverstone Development, Riverstone will pay for road within Brazos Landing subdivision & the City is to front the construction cost over drainage channels then be reimbursed for some cost via mobility fees. The developer currently plans to begin construction in FY 2006.

PROJECT NO.	PROJECT NAME	PROJECT DESCRIPTION	JUSTIFICATION
ST0307	U.S. Highway 59 Widening - Phase II	Funding to facilitate construction of U.S. Highway 59 from Hwy 6 to S.H. 99. This project is already under construction and the additional funds are primarily for the first of 3 annual payments (\$570,060.85 per year) to cover the increase in railing price per the Funding Agreement with TxDOT approved by City Council on September 7, 2004.	These expenditures are necessary to ensure the City can address its funding obligations to TxDOT as established per agreement, as well as to ensure the City can respond quickly and adequately to unforeseen conditions during construction.
ST0401	Dulles Avenue Upgrade	Upgrade corridor to include various spot improvements and additional through movement where necessary as determined in the thoroughfare study performed for Sugar Land, Missouri City and Stafford. In FY02 the City was successful in acquiring a \$120,000 grant from the HGAC. This project represents the City's required 25% local match portion of the project.	Improve mobility along Dulles Avenue. \$1,550,000 is identified in the Fort Bend County Mobility bonds. The balance is to be shared between Sugar Land, Stafford and Missouri City. City received \$112,500 federal match in FY 2004 for preliminary engineer study of corridor. TxDOT to construct US 90A overpass over Dulles/Kirkwood intersection anticipated in 2008.
ST0501	Alkire Lake Drive Pavement Reconstruction	Replace the existing asphalt pavement and subgrade with 6 inch concrete pavement, lime treated subgrade and shoulders from U.S. 90A to the Alkire Lake cul-de-sac.	Existing roadway has become a chronic maintenance burden with subgrade and pavement failures occurring within 2-3 years of rehabilitation. Proposed improvements will provide longer life through improved subgrade construction, greater pavement strength and more efficient drainage.
ST0502	Lakeview Drive Reconstruction	Design and reconstruction of Lakeview Drive from Wood Street east to Neal Drive. Will include the replacement of existing asphalt roadway with concrete pavement, curbs, gutters and upgrade of the existing storm sewer system.	Existing storm sewer is undersized and inefficient in relatively minor rainfall events. Asphalt pavement in deteriorating state and will require substantial rehabilitation in near future.
ST0503	Reed Road	Design and construction of roadway improvements from Jess Pirtle/Reed/Industrial intersection to Julie Rivers Drive. May include intersection realignment, straightening of the curves & signalization at Industrial Boulevard per Pelec Developer's Agreement.	Improve traffic flows, mobility and driver safety in the business park. Schedule will be dependent on development in the immediate area. An engineering alternatives analysis was performed in 2001 for this corridor.
ST0504	Mayfield Park Street Reconstruction	Reconstruct all existing asphalt street with open ditch drainage to 28' concrete roadway, curbs, gutters, enclosed storm sewer system and sidewalks. Project will be phased and consistent with the City's community redevelopment policy.	The project will provide improved safety for pedestrian traffic, reduce maintenance costs by providing an effective service life of at least thirty (30) years with minimal maintenance and bring streets to City's standard of concrete.

PROJECT NO.	PROJECT NAME	PROJECT DESCRIPTION	JUSTIFICATION
ST0507	State Highway 6 and US Highway 90A Beautification Improvements	Landscape Cost Share Project with TxDOT for beautification of the 90A road widening and the Highway 6 at 90A overpass improvements.	Meets the criteria of the City's Urban Beautification Policy.
ST0508	US 59 Phase III: SH 99 Interchange Reconstruction	Design and construction of improvements, as well as payment for a 10% local share of ROW and utility costs, related to TxDOT's proposed reconstruction of the U.S. 59 at S.H. 99 interchange. This expansion will include reversing the bridge so that the U.S. 59 main lanes are over S.H. 99, which will be at grade. Tentatively schedule for letting in August 2005.	This funding is necessary to fulfill the City's 10% local funding requirements for ROW and private utility costs and to fund aesthetic improvements as specified in the City's Urban Beautification policy.
ST0509	U.S. 90A Quiet Zone	Design and construction of a "Phase II" quiet zone, to upgrade and replace the proposed "Phase I" (wayside horn at 6 intersections) quiet zone with full quad gates at 9 intersections nearest the current and future residential areas of the City. These intersections are from SH6 through Schlumberger. The "Phase I" Quiet Zone is funded through the 90A CIP (ST0303).	Address citizen concerns over train horn noise. The "Phase I" wayside horns are recommended to provide interim noise relief until TxDOT's US90A expansion is complete (expected 2008). At that time, these "Phase II" quad gates may be installed. If wayside horns provide sufficient noise reduction, these quad gates may not be necessary.
ST0601	Main Street Reconstruction	The project consists of design and reconstruction of Main Street from U.S. Highway 90A to Seventh Street. Scope to include replacement of existing asphalt over concrete pavement with concrete roadway, curb, gutters, storm sewer pipe and inlets.	The subject roadway is experiencing an elevating frequency of subgrade failures and pavement deterioration. Additionally, the storm sewer system is undersized and not adequate to efficiently handle runoff in less than significant rainfall events.
ST0602	Sidewalk Rehabilitation	Provide annual dollars to replace/rehabilitate existing sections of failed sidewalk throughout the City as needed. Repair location and priority are identified by the Public Works department through annual inspection of the sidewalk system.	Reduce hazards to pedestrians, joggers, bicyclists, etc.
ST0603	Guenther/Ulrich Asphalt Rehabilitation Project	To mill 2" of deteriorated asphalt off of Guenther/Ulrich and replace 2" of new asphalt. Doing this will restore the life span of the roadway and sub-base.	The asphalt surface of Guenther/Ulrich is beginning to alligator and crumble throughout the entire roadway causing continuous maintenance to be performed on the streets.

PROJECT NO.	PROJECT NAME	PROJECT DESCRIPTION	JUSTIFICATION
ST0604	Pavement Rehabilitation	Provide annual dollars to replace/rehabilitate isolated sections of failed pavement on arterials, major and local collectors and residential streets throughout the City as needed. Repair location and priority are identified by the Public Works Department through annual inspection of the roadway system.	Eliminate highest priority hazards to drivers on the City's 206 lane miles of arterials, 86 lane miles of major collectors, 89 lane miles of local collectors and 415 lane miles of residential streets. A large percentage of the City's roadway system is nearing it's estimated useful life, future funding will need to be increased to meet the anticipated increased failure rate.
ST0605	Wood Street Reconstruction	The scope of the project will include the design and reconstruction of Wood Street to U.S. 90A, replacement of existing asphalt pavement, open ditch drainage with concrete pavement, curbs, gutters, sidewalks, enclosed storm sewer system and the replacement of an existing bridge over Cleveland Lake.	Provide for safe and accessible pedestrian travel. Replace deteriorating roadway.
ST0606	University Boulevard thru Tract 4 - Storm Sewer Upgrade	Upsizing of storm sewer through Newland to ultimately accommodate 6 lanes. Per Newland's phasing plan, the schedule is as follows: Phase I (FY 05-06): U.S. 59 to New Territory Blvd. and a small section near S.H. 6. (7500') Phase II (FY 06-07): remainder of University through Tract 4. (3220')	Developer to pay for pavement and storm sewer for 4 lanes. City to pay upsizing construction and design costs for storm sewer to accommodate up to 6 lanes. This is described in the Council approved developer agreement.
ST0701	U.S. Highway 59 Beautification Phase III	Design and construction of the U.S. Highway 6 landscape improvements from Hwy 6 to Brazos River with the intent of entering into the Landscape Cost Share program with TxDOT.	Urban Beautification Policy for Landscape Enhancement to State Highways.
ST0702	Lexington Boulevard Extension	Roadway extension between Sweetwater Boulevard and University Boulevard. Design plans will allow for phasing (1/2 boulevard at a time). This project is City's share of developer agreement consisting of 1/2 of a bridge over Ditch "H" and 100% of the remaining 4 lane boulevard within First Colony.	Will be constructed per the Throughfare Plan to enhance mobility. Current Council approved developer agreement defines responsibility for the construction of the roadway between the City and developer.
ST0703	University Boulevard thru Riverstone - Storm Sewer Upgrade	Upsizing of storm sewer through Riverstone to ultimately accommodate 6 lanes.	Developer to pay for pavement and storm sewer for 4 lanes. City to pay upsizing of storm sewer to accommodate up to 6 lanes to be built when warranted. This is described in the Council approved developer agreement.

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ST0704	Highway 90A Streetscape	Partner with TxDOT for right-of-way beautification in conjunction with the widening and improvements to Highway 90A.	In accordance with the City's Urban Beautification Policy
ST0705	Burney Road Improvements & Widening - Voss to Bellfort	Upgrade and widen the final section of existing 2 lanes asphalt road from Voss to Bellfort with open ditches to a 4 lane concrete curb and gutter roadway. This project will be a Fort Bend County sponsored project with \$860,000 budgeted with 2000 County Mobility Bonds. Additional funds will need to be appropriated by the County.	Improve mobility and safety along the corridor. Ultimate geometrics of intersection with West Airport has been determined as a part of the West Airport project. Fort Bend County had the engineering design performed in calendar year 2004. A portion of this project is located within the City limits. City's prorated share is estimated at \$600,000.
ST0706	Grand Parkway Improvements	City's share of improvements, such as aesthetics, utilities, or other items, to be included in the proposed expansion of the Grand Parkway. The Grand Parkway Association indicated verbally that design could occur in 2006 with construction in 2007.	Grand Parkway's Section "C" (from SH99 south through Greatwood) lies within the City's ETJ. Thus, it may be in the City's best interest to enhance the design of the Grand Parkway. The City has not received any plans as of Feb 2005. These funds are included in the CIP as a placeholder until funding needs are better defined once design is underway.
ST0707	Mobility Assessment Study	Mobility Assessment Study to plan for the integration of all mobility needs. This study will take into consideration the US 90A Commuter Rail Study, master traffic plan, master hike & bike plan, the Thoroughfare Plan and assess the need for future multi-modal transit centers. This study will enhance and upgrade the Master Thoroughfare Plan into a Master Mobility Plan.	Planning for the mobility needs of the community and to help maximize the efficiency of an identified multi-modal transportation network as identified in the Comprehensive Plan. Proper planning will help preserve necessary right-of-way for identified needs and may be used as a tool to help gain federal funds for future projects.
ST0801	Dairy Ashford/Spur 41 Widening	Design and construction of expanded cross section of Dairy Ashford Road and Spur 41 at the intersection of U.S. 90A. This project will increase the number of through lanes over the railroad tracks from four lanes to six lanes and will include quiet zone features. Limits of the project are between U.S. 59 and Julie Rivers Drive.	Level of service along Dairy Ashford at U.S. 90A is projected fall below City standards in 2010, according to the study performed by Rodriguez Transportation Group in 2003. These improvements will improve the level of service at this intersection and will provide for a quiet zone, thus addressing citizen concerns over noise from train horns.

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ST0802	University Boulevard North Bridge (Ditch "H" to U.S. 90A)	Design and construction of the segment of University Boulevard between the current terminus south of Ditch "H" near the Wal-Mart to U.S. 90A. Phase I would be the construction of one-half the boulevard section with one two-lane bridge over Ditch "H". The construction of the second half of the boulevard would be dependent on development and traffic volumes.	This project is consistent with the Thoroughfare Plan and is timed with the University Blvd. - North.
ST0901	Meadowcroft Bridge	Roadway extension between First Colony Boulevard and Tract 4 property line. This project is for 1/2 of the bridge and 100% of the roadway section from the levee to First Colony Boulevard.	Will be constructed per the Thoroughfare Plan to enhance mobility. Current development agreement defines responsibility for the construction of the roadway between the City and developer.
ST1001	Riverstone North/South Arterial	Known as Spine Road in the Developers Agreement with Riverstone. Design and Construct second half of a 4 lane divided north/south arterial from Commonwealth Boulevard to Missouri City ETJ line. Roadway will ultimately connect to Fort Bend Parkway.	Improve regional mobility by providing a route to the Fort Bend Parkway, parallel to SH 6. A portion of the roadway (2 Lanes) and sufficient storm sewer facilities for a four lane boulevard will be designed and constructed by the developer.
SUMMARY - TRAFFIC			
TR0503	Williams Trace @ Lexington Blvd. Intersection Improvements	This project includes design and construction of turn lanes on westbound, eastbound and southbound approaches of the intersection. It would also require relocation of some signal poles, signal ground boxes, fire hydrant, inlets and sidewalks etc. The existing signal upgrade may also include VIVIDS (Video detection) for the entire intersection.	Currently, the intersection operates at poor level-of-service and observe severe traffic congestion during peak hours of the week days and week ends, particularly along westbound Lexington approach to US 59 and southbound Williams Trace approach to Lexington. The recommended improvements will add more capacity to the intersection and as a result of the recommended improvements, it would relieve congestion on both roadways, improve safety and quality of life in neighborhood, as well as improve mobility.
TR0505	Traffic Signal at Lexington Blvd. & Settlers Way Blvd.	The project entails the installation of traffic signal at the intersection of Lexington Blvd. and Settlers Way Blvd..	At this intersection, there have been five or more vehicular accidents per year, 2001 to 2003. A traffic signal warrant analysis was conducted to justify a need for traffic signal. Per traffic analysis, the installation of traffic signal was recommended and justified for this intersection. We anticipate that the installation of traffic signal will increase the traffic handling capacity, improve the mobility in the area as well as the safety of the motorists.

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TR0506	Dairy Ashford Blvd./ Park Ln. Blvd. Signalization	Traffic signalization of intersection due to increased development in the "Triangle". The signal will be interconnected with the U.S. Highway 59 and U.S. Highway 90A signals.	Improve safety and mobility. City to partner with Granite Properties for necessary geometric improvements at the intersection.
TR0601	State Highway 6 Regional Traffic Signal Interconnection Project	This project will include the interconnection of City of Sugar Land S.H. 6 traffic signals with those in Missouri City to provide for a seamless transition between our two cities. The project also funds Traffic Management Center improvements which enables our system to be compatible with others in our region.	This project will be a cooperative effort between the City of Sugar Land and Missouri City to acquire funding from HGAC for the project. HGAC will pay 80% if we are successful in acquiring approval.
TR0602	Eldridge Rd at West Airport Blvd. Intersection Improvements	This project includes design and construction of turn lanes on southbound Eldridge Rd and westbound W. Airport approaches, including the design to increase the storage lengths of existing turn lanes. The project will also require the relocation of some existing signal poles, ground boxes, fire hydrant, inlets and sidewalks etc. The existing signal upgrade may include VIVIDS for the entire intersection.	Currently, the intersection operates at poor level-of-service during peak hours. The recommended improvements will add more capacity and as a result of the recommended improvements, it would not only relieve congestion but also improve safety, quality of life, as well as mobility in the area. Recently conducted traffic impact analysis for the Prologis development concurred with the City's already planned intersection improvements at this intersection.
TR0603	Intelligent Transportation Systems Master Plan	This project is for the development of an ITS Master Plan. The ITS master plan will define projects and project phasing that will need to be implemented as traffic demands continue to increase. This plan will be the first step toward an over all City wide strategy for ITS deployment that will ultimately enable our roadways to function optimally.	This Master Plan will be a guiding document for the development of a complete strategy for ITS deployment. ITS is the science of integrating intelligent traffic systems such as traveler information websites, dynamic message signs, traffic cameras, smart traffic signal systems, etc into a comprehensive system. This science is the next step in the ultimate improvement and refinement of the City's traffic management system.
TR0604	Traffic Improvements	This project will include operational or professional services for the improvement of traffic signal progression through out the City. The services will include work to the Traffic Management Center, dynamic message sign project development, interconnection, additional camera sites, etc.	As we begin to run out of room for additional lanes of traffic, the need to effectively manage that traffic via our traffic signal system becomes more and more crucial. This project will enable the Public Works Department to react quickly to needs as they arise plus proactively research and implement new programs or program enhancements to improve congestion.

PROJECT NO.	PROJECT NAME	PROJECT DESCRIPTION	JUSTIFICATION
TR0605	Traffic Signal at Austin Parkway & Cross Lakes Blvd.	The project entails the installation of traffic signal at the intersection of Austin Parkway and Cross Lakes Boulevard. The Austin Parkway Elementary School is located in the northeast corner of the intersection.	This busy intersection is located in a school zone. The intersection meets peak hour and school crossing signal warrants. We anticipate that the installation of a traffic signal will improve safety of school children, increase the traffic handling capacity, improve the mobility in the area as well as the safety of motorists.
TR0606	Traffic Signal at Gillingham Lane & West Airport Blvd	The project entails the installation of a traffic signal at the intersection of West Airport Blvd. and Gillingham Lane. This intersection is located in between the existing signalized intersections of West Airport Blvd./Industrial Blvd. and West Airport Blvd./Eldridge Rd (FM 1876).	The installation of a traffic signal at this intersection is justified in the traffic impact analysis (TIA) for the ProLogis development and Tramontina. Also, traffic is anticipated to increase on W. Airport Blvd. with US 90A construction and increase on Gillingham Lane with the extension of Gillingham Lane. We anticipate that the installation of traffic signal will increase the traffic handling capacity, improve the mobility in the area as well as the safety of motorists.
TR0607	Traffic Signal at Gillingham Lane & Jess Pirtle	The project entails the installation of traffic signal at the intersection of Gillingham Lane & Jess Pirtle. This intersection is located approximately 1750 ft. east of signalized intersection of Eldridge Rd (FM 1876) and Jess Pirtle Drive.	The installation of a traffic signal at this intersection is justified in the traffic impact analysis (TIA) for the ProLogis development. The new developments along Gillingham Lane and Gillingham Lane extension are the main justifications for the installation of traffic signal at this location. We anticipate that the installation of traffic signal will increase the traffic handling capacity, improve the mobility in the area as well as the safety of motorists.
TR0608	Lexington Blvd. at SH 6 Intersection Improvements	This project includes design and construction of turn lanes on southbound and northbound SH 6 in Phase-1 (2006-2007) and the westbound thru lane Lexington Blvd. approached in Phase-2 (2008). The Phase-1 will include construction of the second left turn lane on southbound SH 6 approach and the extension of existing turn lanes on northbound to increase the storage. The Phase-2 will provide three thru lanes on westbound Lexington approach with exclusive left and right turn lanes. Phase-2 is intended to tie with the extension of Lexington Boulevard. Both phases will require some signal, sidewalks and ground boxes modification.	The intersection operates at a below standard level-of-service during peak hours. The recommended improvements will add more capacity and as a result of the recommended improvements, will relieve congestion, improve safety, and quality of life.

PROJECT NO.	PROJECT NAME	PROJECT DESCRIPTION	JUSTIFICATION
TR0609	Intersection Capacity Improvements	Geometric pavement improvements for intersection capacity for turn lanes and thru lanes.	Capacity improvements at existing intersections to help comply with City's intersection level-of-service standards.
TR0701	Traffic Signal at Lexington Blvd. & Colonist Park Dr.	The project entails the installation of traffic signal at the intersection of Colonist Park Drive and Lexington Boulevard. This intersection is in between the existing signalized intersection of Williams Trace/Lexington Blvd. and Lexington Blvd./Settlers Blvd., the proposed recommended traffic signal.	A traffic signal warrant analysis was conducted for this location. Per traffic analysis, a traffic signal was recommended and justified at this intersection based on Peak Hour & Coordinated Signal System Warrants. The City maintains the school crosswalk at this intersection. We anticipate that the installation of traffic signal will improve safety of school children, increase the traffic handling capacity, improve the progression along Lexington as well as the safety of motorists.
TR0702	Traffic Signal System Improvements	The project will consist of upgrading our existing Traffic Signal System to be wireless Ethernet compatible which will allow for an infinitely expandable traffic system throughout the City, ETJ, and perhaps the entire County inclusive of camera, DMS signs, signal interconnection, and video detection devices. Once this work is complete a City wide timing upgrade will be implemented.	This project will be coordinated with our comprehensive S.H. 6 Town Center Traffic Signal timing plan study which is set to begin in late March of 2005. Once the signals are timed optimally we will add the ITS infrastructure that encompasses this project. The recommended improvements will allow more information to be shared between the Traffic Signals, the motorists and the Traffic Operations Center. These improvements will give the City more tools to mitigate congestion on major corridors and to share information with the public.
TR0703	CMAQ Video Integration	The project is to integrate the video from the recently completed CMAQ Project into the City's Computer Network. Currently the video from the eight intersection cameras can only be viewed and controlled from the Traffic Operations Center. This project will enable the video to be viewed and controlled from a remote location.	This project will enable the video from the Traffic Operations Center to be viewed from any remote location. This will allow the video to be viewed and controlled from the EOC in the event of an emergency. During the off peak hours of the day the video can be viewed at Sugar Land Communications. Eventually this video will be available on the City's Website so that the public will be able to view. We are confident that this project will be a winner for the City so that this information will be available to all.

PROJECT NO.	PROJECT NAME	PROJECT DESCRIPTION	JUSTIFICATION
SUMMARY - WASTEWATER			
WW0504	SLRSS Lift Station Rehabilitation	Rehabilitation/conversion of the three SLRSS lift stations. Funding is for engineering and design for the rehabilitation/conversion of the Harmon St. LS including pump, piping and control panel replacement and complete reconstruction of the Ave. A and Matlage Way Lift Stations.	All three SLRSS lift stations were constructed in the late 1960s or early 1970s. The stations have received minimal maintenance and are of a design and condition well below City standards.
WW0505	Wastewater SCADA System Upgrade	Engineering service for hardware rehabilitation and software upgrade to existing North and South Wastewater System's Supervisory Control and Data Acquisition (SCADA) system. The goal is to upgrade outdated and obsolete SCADA equipment and integrate it with the City's water system SCADA. This will allow both wastewater plants (South Plant and SLRSS) to communicate and be operated as a single wastewater system.	The wastewater System's SCADA operating system is in excess of 14 years old. Its outdated and obsolete equipment/software is not compatible with the Water System SCADA and will need to be replaced. The upgrade will allow the whole Utility system to be operated as a single integrated system. This will improve the efficiency for responding to emergency or severe weather situations in a much more coordinated fashion.
WW0506	Lift Station Rehabilitation/Expansion	Expansion/rehabilitation to the Lift Stations identified in the WW Master Plan and staff routine inspection and annual assessment. FY05-06 lift station projects includes construction of the Lynwood and Greywood (Covington Woods Subdivision) Rehabilitation/Conversion.	The Lynwood and Greywood Lift Stations, constructed in 1970, are both recommended for rehabilitation, conversion and expansion per the City's Wastewater Master Plan and due to pump & control panel wear and to eliminate daily confined space entry.
WW0601	Wastewater Collection System Rehabilitation - Project 4	Rehabilitation of mains identified with high deterioration levels, grade deficiencies or point failures that were not addressed in Project 3. Also included in the project will be the evaluation and rehabilitation of deep bury truss pipe mains installed throughout the City from 1970 - 1985 and an increased emphasis on reducing system I & I in the North & South Systems.	Continuation of a City wide program of rehabilitating deteriorated collection system. With the completion of project 3, a balance of approximately \$3 million worth of needed work was identified by field reports completed in project 3. Recent failures on deep bury truss pipe and increased I & I in isolated areas also warrant project continuation.
WW0602	Wastewater Treatment Plant Expansion	Regionalization of the City's wastewater treatment includes the preliminary engineering report for the expansion of the New Territory plant from 2.5 MGD to 4.5 MGD and diversion from the SLRSS Plant to the New Territory Plant Site.	Per the Wastewater Master Plan the New Territory plant has been identified as the most viable location for regionalized wastewater treatment. The Master Plan's revised connection scheduled indicates that additional treatment capacity will be needed by FY08-09. The proposed 2.0 MGD expansion of the New Territory Plant will provide the additional capacity needed for the Continued development within City.

PROJECT NO.	PROJECT NAME	PROJECT DESCRIPTION	JUSTIFICATION
WW0603	Lift Station Rehabilitation	Expansion/rehabilitation to the Lift Stations identified in the WW Master Plan and by staff routine inspection and annual assessments. FY05-06 lift station projects includes construction of the rehabilitation/conversion of Main Street and Lakeview lift Stations.	The Main Street and Lakeview LS's are recommended for rehabilitation due to extreme wetwell deterioration and pump & control panel wear. They will be converted from self-priming centrifugal pumps to submersible pumps. This has proven to be the most economical in terms of long term maintenance and accessibility.
WW0604	Comprehensive Odor Study - First Colony	Project to consist of completing a comprehensive odor survey of the First Colony wastewater collection system, odor control equipment at two regional lift stations, and the addition of chemical additives at selected locations.	The First Colony wastewater collection system was designed to collect wastewater from area MUD's into regional Master MUD lift stations for re-pumping to the South wastewater treatment plant. This design does not always allow for the expedient delivery of wastewater to the treatment plant.
WW0605	East and West Interceptor Inspection and Evaluation	This project will include complete televising and/or metallurgical inspection of the two main gravity flow trunk mains that supply the north wastewater treatment plant. The project Preliminary Engineering Report will provide a rehabilitation scope of work with a time frame for when repairs are needed.	A comprehensive evaluation of the east and west interceptor has not been completed within the last 10 years. The west interceptor extends from Mayfield subdivision down Brooks to highway 6 and is approximately 30 years old and consists of ductile iron and concrete pipe. It is showing signs of imminent failure in places that have been uncovered.
WW0701	South Treatment Plant Rehabilitation	Fiscal year 2005 included design & construction for scheduled maintenance of wastewater treatment plant fixed equipment (aerators and clarifier gear drives) at the City's South Treatment Plant. FY07/08 funding is for rehabilitation of additional large fixed equipment such as blowers and blower motors, screw pumps and belt presses.	Preventive maintenance in accordance with the manufacturer's suggested maintenance intervals. Regularly scheduled maintenance is essential to ensure reliable operation from aging infrastructure.
WW0702	SLRSS BRA Wastewater Flow Diversion	Diversion of approximately 1.5 MG of wastewater flow from the SLRSS BRA WW Treatment Plant to the South WW Treatment Plant (STP). FY04-05 Project includes design and installation of approximately 4,200 ft. of 36"parallel force main from the Settlers Way lift station to the South Treatment Plant. FY2007 project includes construction of a 12" force main from the BRA Plant to Lexington Blvd.	The diversion of wastewater flows will utilize available capacity at the STP and free capacity at the BRA plant for current and anticipated development in the north area of the City, eliminating the need for future expansion of the BRA Plant. The 36" parallel force allows the full volume of diversion flow to be pumped during peak flow conditions and eliminates a current restriction on the existing force main. The force main will also address the deteriorating condition of the existing force main.

PROJECT NO.	PROJECT NAME	PROJECT DESCRIPTION	JUSTIFICATION
WW0801	South Wastewater Treatment Plant Upgrades	Design and construction of the South Wastewater Treatment Plant solids processing and disinfection upgrades. Project will include expansion of the plants digester, belt press system and disinfection systems. The expansion will require structural and mechanical modification.	As the South Treatment Plant nears its design capacity of 7.5 MGD the solids processing and disinfection systems will be operations at or near their capacity. The proposed diversion of the SLRSS mixed liquors will further tax these system. The proposed expansion will improve their efficiencies and reduce the potential for permit violation.
SUMMARY - WATER			
WA0204	Woodchester Water Plant Replacement Well	Fiscal year 2006 includes the construction to replace the 30+ year old onsite well (no. 2) with a production capacity of 375 gpm with larger 1500 gpm to 2000 gpm production capacity well.	The Woodchester Water plant's current production capacity consist of 2 wells (1 small & 1 large). The small well is over 30 years old. Distribution capacity at the plant far exceeds its production capacity, the addition of a new larger well would allow the facility to be fully utilized. With the development in the northern part of the City this new well will be a necessity.
WA0303	Distribution System Interconnects	Construction phase of three water distribution interconnects between the City's north distribution system pressure plan and the south pressure plan. Proposed interconnect locations determined through the project Preliminary Engineering.	The proposed interconnections between the two water systems will improve water hydraulics and system pressures. The two existing system interconnections are inadequate to provide operation of both systems as one when demand requires.
WA0306	Water Utility System Security	Construction of phase II of Water Utility Security based on the result of the outcome of the water vulnerability assessment conducted in fiscal year 2004.	The nations water supply is under continuous threat of terrorist activities. The threats are primarily related to stored water contamination, infrastructure damage and potential distribution system contamination. Through security self-assessments, hard perimeter security was identified as our most immediate concern with protecting the City's water supply. Through an EPA mandate, the City has conducted a water vulnerability assessment, which was filed in June 2004.

PROJECT NO.	PROJECT NAME	PROJECT DESCRIPTION	JUSTIFICATION
WA0502	Water Main Rehabilitation	Distribution system water line replacement project to replace aged and high maintenance existing water mains. Locations to include high maintenance 6" and 8" asbestos cement mains in Sugar Creek subdivision and 12" main at Sugar Lakes Blvd. crossing US 59, and 8" water mains on Cordes Dr. & Austin Parkway in First Colony.	Existing mains have been identified as areas with undersized mains or high maintenance.
WA0503	Elevated Storage Tank	Two million gallon elevated storage tank in the southwest area of the City (General Vicinity of the U of H campus/TxDOT tract 5 area).	Per the Water Master Plan, the elevated storage tank is recommended to accommodate new development in the south portion of the City and the projected ETJ. The additional storage capacity will help eliminate pressure problems in the area and provide increased distribution capacity for peak demand hours and fire suppression.
WA0504	Sugar Creek Water Plant Distribution Main Upgrade	Installation of 2,000 l.f. of 18" water main from the Sugar Creek Water Plant east to Sugar Creek Blvd. and west to Country Club Drive.	The proposed main will improve water system delivery hydraulics and distribution pumping efficiency. The existing mains leaving the Sugar Creek Plant are inadequately sized to fully utilize the plants distribution and production pumping capacity. The improved hydraulics will allow the plant to work more as a regional plant, vs. it's original design as a subdivision plant.
WA0601	Lake Pointe Water Line Extension	City's participation for construction of approximately 1,700 L.F. of 12-inch water line. The project limits are from Fluor Daniels west of the Brooks Lake Bridge, crossing Brooks Lake (attached to the bridge) then turns north along Creek Bend Drive, connecting to section five of the Lake Pointe development.	Current second water feed crosses under the Brooks Lake Diversion Channel, is constructed of steel welded pipe and is approximately 30 years old. The crossings of this nature have a history of failure. By participating with the Lake Pointe development, the City will be able to construct a new permanent crossing at a reduced cost.
WA0602	Lakeview Water Plant Ground Storage Tank Rehabilitation	Refurbishment of the existing Lakeview Water Plant's two .44 MG steel galvanized bolted ground storage water tanks. Work includes structural repairs and modifications as needed, blasting and coating of interior & exterior surfaces.	Scheduled maintenance for the tanks in following the Department's Water Storage Tank Rehabilitation Plan. Department inspection of the tanks indicates the interior and exterior galvanized coatings of both tanks is failing and recoating is recommended to extend the life of the tanks.

PROJECT NO.	PROJECT NAME	PROJECT DESCRIPTION	JUSTIFICATION
WA0603	Water Plant Upgrades	Construction of water plant upgrades at Lakeview water plant and another water plant yet to be determined in preparation of surface water conversion, as take points for surface water delivery. Also, construction of a transmission line from the City of Houston water main near the intersection of West Bellfort and Dairy Ashford for delivering the surface water.	The City must convert 30% of water usage from groundwater to surface water by 2013. In order to utilize available surface water capacity, the existing water plants nearest the source of the surface water should be converted to allow for use of this surface water source and a transmission line must be constructed to bring the surface water to the plant.
WA0604	Water Well Rehabilitation	Design & construction scheduled maintenance of water wells for one of the City's 15 water wells. Maintenance of water wells includes pulling of pump from wells and cleaning well screens. Repairs required to well and pumps are determined when the wells are pulled.	Preventive maintenance in accordance with the well rehabilitation plan. Regularly scheduled maintenance is essential to ensure an adequate water supply during periods of peak usage.
WA0605	Austin Parkway Water Plant - Ground Storage Tank Rehabilitation	Refurbishment of the existing Austin Parkway 1.3 MG steel welded, painted ground storage water tank on site. Work includes structural repairs and modifications as needed, blasting and proper removal of old coatings and repainting.	Scheduled maintenance for water storage tanks in following the Department's Tank Rehabilitation Plan. The interior and exterior coatings of both tanks are failing and replacement is recommended to extend the life of the tanks.
WA0701	Elevated Storage Tank Rehabilitation	Refurbishment of one of the City's four existing steel elevated storage water tanks. Work includes structural repairs and modifications as needed, blasting and coating of interior & exterior surfaces.	Scheduled maintenance for the tanks is following the Department's Water Storage Tank Rehabilitation Plan. Continued rehabilitation of the tanks is recommended within the next five years to extend their useful life.
WA0702	South System Water Plant No. 3 Phase II	Phase II of South System Water Plant No. 3 construction will include an off-site water well, additional ground storage tank and additional booster pump capacity.	Per the Water Master Plan additional capacity will be needed in the City's South System by 2008 to meet increased regional system demands. The recommended additional capacity at the No. 3 Water Plant is the best delivery point for servicing development in TxDOT tracts four & five with the City's regional facility plan.

PROJECT NO.	PROJECT NAME	PROJECT DESCRIPTION	JUSTIFICATION
WA0801	Woodchester Water Plant 1.0 MG Ground Storage Tank Construction	Design and construct a 1.0 MG steel welded GST at the Woodchester Water Plant and storage tank supply side piping upgrades. The project may include demolishing an existing .45 MG GST, depending on the outcome of the preliminary engineering report.	In 2006 the city will begin drilling a 2000 GPM replacement well for the Woodchester water plant. This will provide for some much needed redundancy and additional capacity during peak periods as development increases in the northern part of the city. The combined production capacity at the facility will be 4000 GPM and will require.

PROJECT NO.	PROJECT NAME	PROJECT DESCRIPTION	JUSTIFICATION
WA0901	Distribution System Water Main Rehabilitation	Design and Construct distribution system water line replacement project to replace aged and high maintenance existing water mains. Locations to include mains in Lakefield and Sugar Creek subdivisions.	Existing mains have been identified as areas with undersized mains or high maintenance. Rehabilitation will improve water quality and service. These 30 - 40 year old asbestos cement water lines will be replaced with PVC water lines.
WA0902	South System Water Plant No. 2 Expansion - Well No. 9 & Booster Pump	South System Water Plant No. 2 Expansion and Water Well No. 9. Project includes installation of a 2,500 GPM off-site water well, approximately 3,500 L.F. of 12" well collection line, yard piping, disinfection system and upsizing of one booster pump from 1000 GPM to 2,500 GPM.	Per the Water Master Plan's revised connection schedule additional capacity will be needed in the City's South System by 2010 to meet increased regional system demands. The recommended additional capacity at the No. 2 Water Plant is the best delivery point for servicing development in TxDOT tracts four & five with the City's regional facility plan.
WA1001	Water Storage Tank Rehabilitation	Refurbishment of an existing Ground Storage or Elevated Storage water tank at a project site to be determined. Work includes structural repairs and modifications as needed, blasting and proper removal of old coatings and repainting. Location to be determined.	Scheduled maintenance for water storage tanks in following the Department's Tank Rehabilitation Plan. The interior and exterior coatings will be failing and replacement will be recommended to extend the life of the tanks.
WA1002	Sugar Creek Replacement Well	Construction of a 2,000 to 2,500 GPM water production well, to replace the Sugar Creek On-site Well No. 1 (900 GPM) and Sugar Creek Off-site Well No. 3 (1,700 GPM)	Sugar Creek Well No. 1 will be approximately in excess of 40 years old by the recommended replacement date and will have reached its useful life. Well No. 3 will be approximately 30 years old and is currently producing low levels of sand. Due to its limited access location, rehab. of Well No. 3 is not possible and abandonment is recommended when well failure occurs.